



IFWP

## RAW SEQUENCE LISTING

DATE: 07/20/2006

PATENT APPLICATION: US/10/585,884

TIME: 08:41:04

Input Set : A:\50026.059001.txt

Output Set: N:\CRF4\07202006\J585884.raw

```

3 <110> APPLICANT: IWADATE, Yasuo
4     YAMAURA, Akira
5     INOUE, Makoto
6     HASEGAWA, Mamoru
8 <120> TITLE OF INVENTION: Gene Therapy for Tumors Using Minus-Strand RNA Viral Vectors
9     Encoding Immunostimulatory Cytokines
11 <130> FILE REFERENCE: 50026/059001
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/585,884
C--> 13 <141> CURRENT FILING DATE: 2006-07-12
13 <150> PRIOR APPLICATION NUMBER: PCT/JP2005/000238
14 <151> PRIOR FILING DATE: 2005-01-12
16 <150> PRIOR APPLICATION NUMBER: JP 2004-005186
17 <151> PRIOR FILING DATE: 2004-01-13
19 <160> NUMBER OF SEQ ID NOS: 20
21 <170> SOFTWARE: PatentIn version 3.3
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 399
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(399)
33 <400> SEQUENCE: 1
34 gca cct act tca agt tct aca aag aaa aca cag cta caa ctg gag cat      48
35 Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His
36 1          5          10          15
38 tta ctg ctg gat tta cag atg att ttg aat gga att aat aat tac aag      96
39 Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
40          20          25          30
42 aat ccc aaa ctc acc agg atg ctc aca ttt aag ttt tac atg ccc aag      144
43 Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
44          35          40          45
46 aag gcc aca gaa ctg aaa cat ctt cag tgt cta gaa gaa gaa ctc aaa      192
47 Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
48          50          55          60
50 cct ctg gag gaa gtg cta aat tta gct caa agc aaa aac ttt cac tta      240
51 Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
52 65          70          75          80
54 aga ccc agg gac tta atc agc aat atc aac gta ata gtt ctg gaa cta      288
55 Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu
56          85          90          95
58 aag gga tct gaa aca aca ttc atg tgt gaa tat gct gat gag aca gca      336
59 Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala

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```

60          100          105          110
62 acc att gta gaa ttt ctg aac aga tgg att acc ttt tgt caa agc atc      384
63 Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile
64          115          120          125
66 atc tca aca ctg act      399
67 Ile Ser Thr Leu Thr
68          130
71 <210> SEQ ID NO: 2
72 <211> LENGTH: 133
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 2
78 Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu Gln Leu Glu His
79 1          5          10          15
82 Leu Leu Leu Asp Leu Gln Met Ile Leu Asn Gly Ile Asn Asn Tyr Lys
83          20          25          30
86 Asn Pro Lys Leu Thr Arg Met Leu Thr Phe Lys Phe Tyr Met Pro Lys
87          35          40          45
90 Lys Ala Thr Glu Leu Lys His Leu Gln Cys Leu Glu Glu Glu Leu Lys
91          50          55          60
94 Pro Leu Glu Glu Val Leu Asn Leu Ala Gln Ser Lys Asn Phe His Leu
95 65          70          75          80
98 Arg Pro Arg Asp Leu Ile Ser Asn Ile Asn Val Ile Val Leu Glu Leu
99          85          90          95
102 Lys Gly Ser Glu Thr Thr Phe Met Cys Glu Tyr Ala Asp Glu Thr Ala
103          100          105          110
106 Thr Ile Val Glu Phe Leu Asn Arg Trp Ile Thr Phe Cys Gln Ser Ile
107          115          120          125
110 Ile Ser Thr Leu Thr
111          130
114 <210> SEQ ID NO: 3
115 <211> LENGTH: 10
116 <212> TYPE: RNA
117 <213> ORGANISM: Artificial
119 <220> FEATURE:
120 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
122 <400> SEQUENCE: 3
123 ucccwvuuwc      10
126 <210> SEQ ID NO: 4
127 <211> LENGTH: 10
128 <212> TYPE: RNA
129 <213> ORGANISM: Artificial
131 <220> FEATURE:
132 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
134 <400> SEQUENCE: 4
135 ucccaguuuc      10
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 10
140 <212> TYPE: RNA

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```

141 <213> ORGANISM: Artificial
143 <220> FEATURE:
144 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
146 <400> SEQUENCE: 5
147 ucccacuuac 10
150 <210> SEQ ID NO: 6
151 <211> LENGTH: 10
152 <212> TYPE: RNA
153 <213> ORGANISM: Artificial
155 <220> FEATURE:
156 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
158 <400> SEQUENCE: 6
159 ucccacuuuc 10
162 <210> SEQ ID NO: 7
163 <211> LENGTH: 10
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial
167 <220> FEATURE:
168 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
170 <400> SEQUENCE: 7
171 aggggtcaaag 10
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 10
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial
179 <220> FEATURE:
180 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
182 <400> SEQUENCE: 8
183 aggggtgaatg 10
186 <210> SEQ ID NO: 9
187 <211> LENGTH: 10
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial
191 <220> FEATURE:
192 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
194 <400> SEQUENCE: 9
195 aggggtgaaag 10
198 <210> SEQ ID NO: 10
199 <211> LENGTH: 9
200 <212> TYPE: RNA
201 <213> ORGANISM: Artificial
203 <220> FEATURE:
204 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
206 <400> SEQUENCE: 10
207 auucuuuuu 9
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 9
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial

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215 <220> FEATURE:
216 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
218 <400> SEQUENCE: 11
219 taagaaaaa 9
222 <210> SEQ ID NO: 12
223 <211> LENGTH: 10
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial
227 <220> FEATURE:
228 <223> OTHER INFORMATION: an example of S sequence of Sendai Virus
230 <400> SEQUENCE: 12
231 ctttcaccct 10
234 <210> SEQ ID NO: 13
235 <211> LENGTH: 15
236 <212> TYPE: DNA
237 <213> ORGANISM: Artificial
239 <220> FEATURE:
240 <223> OTHER INFORMATION: an example of E sequence of Sendai Virus
242 <400> SEQUENCE: 13
243 tttttcttac tacgg 15
246 <210> SEQ ID NO: 14
247 <211> LENGTH: 18
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial
251 <220> FEATURE:
252 <223> OTHER INFORMATION: an artificially synthesized linker sequence
254 <400> SEQUENCE: 14
255 atgcatgccg gcagatga 18
258 <210> SEQ ID NO: 15
259 <211> LENGTH: 18
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial
263 <220> FEATURE:
264 <223> OTHER INFORMATION: an artificially synthesized primer sequence
266 <400> SEQUENCE: 15
267 gttgagtact gcaagagc 18
270 <210> SEQ ID NO: 16
271 <211> LENGTH: 42
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial
275 <220> FEATURE:
276 <223> OTHER INFORMATION: an artificially synthesized primer sequence
278 <400> SEQUENCE: 16
279 ttgcccggca tgcattttc ccaaggggag agttttgcaa cc 42
282 <210> SEQ ID NO: 17
283 <211> LENGTH: 18
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial
287 <220> FEATURE:

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288 <223> OTHER INFORMATION: an artificially synthesized primer sequence
290 <400> SEQUENCE: 17
291 atgcatgccg gcagatga                                     18
294 <210> SEQ ID NO: 18
295 <211> LENGTH: 21
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial
299 <220> FEATURE:
300 <223> OTHER INFORMATION: an artificially synthesized primer sequence
302 <400> SEQUENCE: 18
303 tgggtgaatg agagaatcag c                                 21
306 <210> SEQ ID NO: 19
307 <211> LENGTH: 51
308 <212> TYPE: DNA
309 <213> ORGANISM: Artificial
311 <220> FEATURE:
312 <223> OTHER INFORMATION: an artificially synthesized primer sequence
314 <400> SEQUENCE: 19
315 acttgcggcc gcgtttaaac ggcgcgccat gtacaggatg caactcctgt c      51
318 <210> SEQ ID NO: 20
319 <211> LENGTH: 63
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial
323 <220> FEATURE:
324 <223> OTHER INFORMATION: an artificially synthesized primer sequence
326 <400> SEQUENCE: 20
327 atccgcggcc gcgatgaact ttcaccctaa gtttttctta ctacggattt aaatggcgcg 60
329 cca                                                         63

```

RAW SEQUENCE LISTING ERROR SUMMARY  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/585,884

DATE: 07/20/2006

TIME: 08:41:05

Input Set : A:\50026.059001.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date